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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 10/699,221 Confirmation No.: 2799  
First Named Inventor: Constantin Bulucea Filing Date: 31 October 2003  
Group Art Unit: 2814 Examiner: Unknown  
Atty. Docket No.: NS-5127-1D US  
Title: Gate-Enhanced Junction Varactor With Gradual Capacitance Variation  
Assignee: National Semiconductor Corporation

Mountain View, California  
15 June 2004

**COMMISSIONER FOR PATENTS**  
**PO Box 1450**  
**Alexandria, Virginia 22313-1450**

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR 1.97(b)**

Sir:

Pursuant to 37 CFR 1.56, 1.97, and 1.98, each document listed on the accompanying substitute PTO Form 1449 is called to the attention of the Examiner for the above patent application. A copy of each listed document is enclosed. Further enclosed is a copy of an English abstract of Japanese Patent Publication 4-199682.

Each listed document was cited in parent U.S. patent application 10/054,653 during its prosecution.

Citation of each listed document shall not be construed as:

1. an admission that the document is necessarily prior art with respect to the instant invention;
2. a representation that a search has been made; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 CFR 1.56(b).

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This information disclosure statement is submitted under the provisions of  
37 CFR 1.97(b).

**EXPRESS MAIL LABEL NO.:**

**EV 337 115 818 US**

Respectfully submitted,



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U.S. Department of Commerce, Patent and Trademark Office	Atty Docket No.	Application No.
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicant(s)	Confirmation No.
Substitute Form PTO 1449	Bulucea, Constantin	2799
	Filing Date	Group
	31 October 2003	2814

## U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	4,003,009	01/1977	Watanabe	334	015	
	AB	4,529,994	07/1985	Sakai	357	014	
	AC	5,504,376	04/1996	Sugahara et al.	257	768	
	AD	5,659,185	10/1997	Iwamuro	257	138	
	AE	5,977,591	11/1999	Fratin et al.	257	344	
	AF	6,165,902	12/2000	Praminick et al.	438	653	
	AG	2002/0036311 A1	03/2002	Hattori	257	302	
	AH	2003/0178689 A1	09/2003	Maszara et al.	257	407	
	AA						
	AB						
	AC						
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	AF						
	AG						
	AH						

## Foreign Patent Documents

							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AI	4-199682	07/1992	Japan	257	365		X
	AJ							
	AK							
	AL							
	AM							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AN	
	AO	
	AP	

Examiner	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.